

CHAL-0836-60

4 January 1960

MEMORANDUM FOR: Chief, Operations Branch, DPD

SUBJECT : Proposed Engine Icing Tests

REFERENCES : A. Engine Malfunction Report at Minot AFB

B. [ ] 1417 (IN 13484)

C. [ ] 571 (OUT 57374)

D. 25X1A 0251 (IN 14325)

E. [ ] 2192 (IN 14351)

F. Letter: [ ] to 4080th Strat R. Wg.

G. Letter: [ ] to [ ]

1. The report of an aircraft engine malfunction possibly due to icing (Ref. A) prompted an inquiry from [ ] as to the desirability of a limited flight test program to evaluate engine icing conditions. Reports from the field detachments indicate that engine icing is not a problem. The flight history of the program agrees with these reports and it is believed that the incident is an isolated case.

2. It must be pointed out, however, that the engine malfunction report conclusions are largely a matter of conjecture and not necessarily fact. There is also a certain amount of inconsistency. The engine ran satisfactorily at 35,000 feet prior to the roughness and compressor stalls. Without flying in any new areas of probable icing conditions, the engine did not run satisfactorily after the air start nor during the descent. The ice found on the engine inlet guide vanes could have been accumulated during the slow speed, low power descent and GCA.

3. Although it is recommended that no flight test program be conducted, it is not the prerogative of the Development Branch to make such an operational decision. It is recommended that Headquarters agree with and accept the line of action initiated by [ ] (Ref G) in revising the operating instructions in the Pilots' Handbook.

SIGNED

JOHN PARANGOSKY

Deputy Chief, Development Branch

Attachment: References & Symbols C

Stanley W. Beerli

Chief, Operations Branch

(Concur with Paragraph 3)

O & J - ygglessee

DPD-PP

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**Attachment:** References A through G

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25X1A

25X1A

CURRENT AND PROPOSED OPERATIONS

OPERATION		AREA	DATE	APPROVAL STATUS USAF-AGENCY STATE	
1.	CHALICE	25X1D			
	a. Middle East Missions (photo)		Continuing Basis	Approved	Approved
			Continuing Basis	Approved	Approved
			Indefinite delay	Approved	Approved
2.		25X1D			
		Overflight	Jan - Feb	Approved	N/R
3.	CORONA	25X1D	19 January	Pending	Pending
4.	AIR SUPPORT				
			February	Approved	Approved
			February	Approved	Approved
			Continuing Basis	Pending	Not presented
			Continuing Basis	Pending	"
			January	Approved	Approved
5.			Fall 1960	Pending	Pending

25X1D

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